VOL. 1 No. 10. SEPTEMBER-OCTOBER, 1919.

MECCANO MAGAZINE

TO HELP MECCANO BOYS TO HAVE MORE FUN THAN OTHER BOYS

CLUB NIGHT. THE HAPPIEST NIGHT IN THE WEEK.

EDITORIAL.

Meccano Guild.

I hope that all you boys will carefully read our announcement of the founding of the Meccano Guild on the next page. This is a wonderful movement for boys, and each one of my readers must do his share towards making it a success.

Meccano Club Members.

The lot of a member of a Meccano club is destined to be a very happy one in future. He will have plenty of interesting work to do; he will be in close contact with a host of fine friends, and he will have plenty of chances of gaining distinction.

Individual Membership of the Guild.

If you are not a member of a Meccano club you may still join the Guild as an individual member; wear the Guild badge; live up to its principles; count on the friendship of all other Meccano boys, and share all the privileges of membership. There will be opportunities in the future for individual members to distinguish themselves and share in the awards and benefits of the Guild.

New Meccano Parts.

Let me specially call your attention to the new Meccano parts illustrated in the accompanying sheet. The design of each one has been carefully studied, and you will find that they will extend the scope of your Meccano outfit very considerably. Additional new parts are in preparation, and will be announced very shortly.

No Shortage of Meccano.

There is no shortage of any Meccano part or outfit now, and you should be able to get anything you require through your dealer without difficulty. You will find very great improvements in most of the parts.

The M.M. oftener in future.

Although there is still a great shortage of paper, I have every confidence that we shall be able to issue the Meccano Magazine oftener in the future. The next number will be specially interesting, as it will record the progress of the Meccano Guild movement, the success of which I feel is already assured. There will also be other new and interesting features.

The Editor

The Life Story of Meccano

By Frank Hornby.

(Continued.)

I now began to pay considerable attention to foreign markets, where Meccano was already meeting with an excellent reception. Agents were appointed in New York, and frequently during the year we sent over heavy shipments. Up to this point our continental business was worked through an agent in Rotterdam, but as he could not cover the whole of the ground we formed separate Meccano Companies in France and Germany. We sent our own trained men over to Paris and Berlin as managers, with the consequence that our continental trade began to increase very rapidly. American, French, and German boys followed the lead of the British boy and accepted Meccano as their winter indoor hobby. I used to pay visits to each of these countries once or twice in the year, and it was interesting to me to watch the English history of Meccano repeat itself in new countries, only, of course, as my goods were much now better finished and the system more highly developed, the progress was much more rapid. This increased foreign business complicated our work enormously of course. We had to print literature, manuals, showcards, and labels in several new languages, and we had to get language experts and men accustomed to export business around us to help. Even at that time we could truthfully say that there was not a civilised country in the whole wide world where Meccano had not penetrated and established itself. Boys wrote to me in all languages, from every quarter of the globe, praising Meccano, complimenting us on our models, suggesting new ones; all showing a desire to get into closer and more intimate touch with us. The boys in Australia and New Zealand were particularly keen on Meccano, and I have to thank them for much encouragement and many suggestions in those early days.

Gradually the whole of our new premises got filled up with new machines, and still the demand grew bigger and bigger. I began to see that moving from one set of premises to another was a waste of both time and money, and more serious still, a hindrance to the progress of Meccano Limited. I gave long and serious thought to the matter, and finally I decided that the only satisfactory way to meet the rapidly growing needs of my business was to buy a plot of land and erect my own building. This was a very serious step, but I had become so confident of the future of Meccano that I had no hesitation in taking it. Before very long I found that I could buy a very fine piece of land within easy reach of the city of Liverpool, handy for the docks and the principal railway stations, and large enough in my opinion to provide for many years' expansion at the same rate which I had already experienced. I purchased the land and the erection of an up-to-date factory was commenced without delay. I am sure you can imagine the satisfaction which this new move gave to me. I watched the building grow to completion with great pride, and it was a happy day for me when I saw two new and powerful engines installed and working all my old and many new machines, turning out Meccano parts under the brightest and healthiest conditions for all my workpeople.

(To be continued.)

The Meccano Guild

A Fellowship of Meccano Boys

More than a million boys in Great Britain derive their greatest indoor pleasure from Meccano. They form local Clubs amongst themselves for the discussion of Meccano topics, and for mutual help. Thousands of them write to us and ask us to put them in correspondence with other boys, and to help them to start Meccano Clubs where they can meet their Meccano chums. We feel that the time has come for the formation of one great fraternal organisation of which all Meccano boys should become members, and we have pleasure in announcing that we have completed our plans for bringing this about in such a way that even the most lonely boy shall be able to take his part and share the happiness.

The objects of the Meccano Guild are :

(*a*) To make every boy's life brighter and happier.

(*b*) To foster clean-mindedness, truthfulness, ambition, and initiative in boys.

(*c*) To encourage boys in the pursuit of their studies and hobbies, and especially in the development of their knowledge of mechanical and engineering principles.

This is surely an ambitious programme, and we can assure our Meccano boys that we shall use every endeavour to establish an organisation of boys, for boys, and conducted as much as possible by boys, which will have a profound effect for good on the lives of all who take part in it.

The Headquarters of the Guild will be at the offices of the Meccano Works in Liverpool. At the head, guiding, controlling, and taking a personal interest in every member, will be the President, and the holder of this office will be Mr. Frank Hornby, inventor of Meccano, and Chairman and Managing Director of Meccano Limited. Associated with the Guild will be Meccano Clubs all over the country, run by Club Leaders and other officials; and finally the great army of club members—thousands upon thousands of clean, busy, happy boys, each with a definite purpose, each a member of a great happy family.

Existing Meccano Clubs should at once apply for affiliation with the Meccano Guild, giving the following particulars :—

(1) Name of Club.
(2) Name and address of Club Leader.
(3) Number of members on roll.
(4) Address where club meetings are held.
(5) The last report and balance-sheet.

The Meccano Club Certificate

Where a club can show that it is a real live organisation a Certificate of Affiliation to the Guild will be granted, and the club will be allowed to avail itself of all the privileges of membership.

Every boy who is not yet a member of a Meccano club should apply for individual membership of the Guild, on the enclosed form.

The applicant must also enclose 7d. to cover the cost of the enamelled badge of membership, which he must undertake to wear on all occasions.

It is the intention of the Guild to render every assistance in the formation of local Meccano clubs, and to guide and help the Club Leaders and officials in the work of running them on successful lines. A set of suggested club rules, and a complete syllabus of a winter season's activities will be sent to the leader on application.

We have had several instances of existing boys' clubs wishing to start a Meccano section, devoting one evening a week to the hobby, and we have no objection to this, provided

such clubs apply for affiliation with the Meccano Guild, and conform to its regulations so far as their Meccano evening is concerned. Meccano boys who are already members of clubs, and who are desirous of having one evening each week devoted to Meccano, should either communicate with us, giving us the name and address of the secretary, or ask the secretary himself to write to us.

We shall be glad to give any assistance to boys desirous of forming separate Meccano clubs. The first necessity is, of course, a club-room to meet in, and this should be properly warmed and lighted. Often the church, chapel, or school authorities are only too glad to provide a suitable room, and where it is desired, to assist in the appointment of a Club Leader to guide and control the work of the members. Let us here say emphatically that the factor which will count most in the success of the club will be the enthusiasm and earnestness of the boys themselves, for no school or church authority can resist an appeal where the objects are so desirable and beneficent as those of the Meccano Guild, if the appeal is properly presented.

Write to headquarters if you have any difficulty; you will get all the help and encouragement you need.

Badges of Membership

Our illustration shows the Meccano Guild membership badge full size. It is beautifully enamelled in colours, and is intended to be worn on the lapel of the coat. The wearing of it will signify that its owner is a Meccano boy who owns a Meccano outfit, is a member of the great brotherhood of boys, has undertaken to live a clean, truthful, and upright life, and regards every other boy wearing a similar badge as his friend, without introduction or ceremony. Each member must wear this badge on all occasions, so that he may be at once recognised by other members.

Special Badges, Diplomas, and Awards, will be granted to members who display ability in connection with Guild and Club work, and your Club Leader will tell you how these may be gained.

Members of Meccano clubs will purchase their badges through their Club Leader.

How To Join The Guild

If you are already a member of a boys' club or organisation, approach your secretary and explain the whole matter to him, first finding out how many other members would like to have a Meccano night. Report fully to the Guild Headquarters saying just what you have done, and what help you need.

If yourself and a number of friends wish to form a separate Meccano club, first secure a room, preferably through your church, chapel, or school authorities, decide on a leader—who should be a teacher, a parent of one of the boys, or some one interested in boys' work—and then report fully to Guild Headquarters.

If you have not sufficient boy friends to form a club and are not a member of an existing club, you should apply for individual membership in the way we have already described.

When your Leader has been appointed, the Guild will provide him with printed notes and suggestions for club rules, and the conduct of meetings, a suggested syllabus covering the first season's work, and particulars of special awards to be worked for by members.

The Guild will not control the finances or the conduct of the club. This must be done by the members themselves through their club leader and officials. The amount of the subscription must be fixed by the club, and must be sufficient to cover the club expenses. Proper accounts and records must be kept by the treasurer and secretary. Where any irregularity is shown the Guild will have power to cancel the club's certificate of affiliation at once. In all club matters the officers of the Guild will at all times be ready to help and guide both leaders and members in their work.

Address your letters to "The Secretary, Meccano Guild, Binns Road, Liverpool." Make them as short, clear, and business-like as possible. One of the objects of the Guild is to foster initiative. This means that you must use your own brains, act vigorously and intelligently, get going, and then tell us clearly just how we can help. If you can make a useful suggestion off your own bat, do so. Get it into your head that you are helping us to make the Guild a success and the other Meccano boys to have a good time. There are wagon loads of enthusiasm ready waiting in the brains and hearts of Meccano boys in this country, and if we pool it all and put it behind the Meccano Guild, we are in for the happiest and brightest of times.

The Meccano Magazine will be the official organ of the Meccano Guild.

Result of the Meccano Essay Competition

How I would run a Meccano Club

The First Prize, a No. 2 outfit, has been awarded to MASTER STEPHEN J. C. WELLS, Caversham, Oxford.

Consolation prizes have been awarded to ROBERT EDEN, 32, Holland Road, Kimberley, South Africa; WALTER A. H. WATTS, 17, Harold Road, Leytonstone, E.11; and MAURICE RIXOM, 31, Lower Road, Port Sunlight, Cheshire,

each of whom has received a Water Motor.

The following are deserving of Special Mention :—

W. TREVOR JONES, 19, Spital Square, London, E.1.

HARRY CYRIL BUXTON, 21, Thirteenth Street, Horden Colliery, Durham.

S. G. WILLIAMS, 2, Wern Villas, Llwydcoed, Aberdare, Glamorgan.

The President's Message to Members of the Meccano Guild

The founding of the Meccano Guild is an event in the history of Meccano, Limited, which has given me the profoundest pleasure. There are more than a million Meccano boys in this country, and for a long time past it has been one of my dreams that this vast army of boys should feel that they know each other, should all become firm friends bonded together by common interest, common work, and common pleasure; that they should study and play together, encourage and help one another, and that they should grow up into useful, vigorous manhood, encouraged and fortified by the knowledge which they have gained by associating with other clever Meccano boys. This dream of mine has now become a reality, and in my first message to the Meccano Guild I want, if I may, to point out the way to a far-reaching success.

You will have read the objects of the Guild, and I hope you thoroughly understand their meaning. They have been carefully thought out, and every action of the Guild will be directed towards attaining them. I attach most importance to the second object, because if we attain that, everything else which we are trying for is sure. I have corresponded with thousands of Meccano boys, and I have a very high opinion of them. I believe they are clean minded, truthful, and ambitious; at all events, we want no other kind in the Meccano Guild, and before you join I want to know that you approve of its objects, and that by your work and example you will do all in your power to bring about their achievement. If you are a member of a Meccano Club you are going to benefit greatly by your association with other Meccano boys, but you must first make up your mind that you are not joining for what you can get but for what you can give. You must give all the personal work you can to carry on the Club. If you excel in anything—either in Meccano model building, or in any other hobby or work of any kind—you must be ready to explain your work to your Club, and help them to become efficient. If you are called upon, you must be ready to study up and read papers to your fellow members. You must take part in all competitions, attend all meetings and assist in all the work which the Club undertakes. This is a Guild of boys whose main object is to help all other boys, and you personally can give just as much help as any other member. Remember that every Meccano boy you meet is your friend, and that you can talk to him freely and trust him. He also has promised to live a clean and useful life, and has undertaken to do all in his power to achieve the objects of the Guild. Tell him what you have done and are doing for the Guild, listen carefully when he tells you what he is doing, and you will both benefit by the interchange of ideas.

The Guild Head-quarters is at the back of each Meccano Club, and each individual member, ready to render advice and assistance. We have some excellent plans for the advancement of the Guild and its objects in the future, but our main work just now is to establish Meccano Clubs in every town and get them all running smoothly.

With good wishes to every Meccano boy,

Yours sincerely,

F. Hornby

Managing Director, Meccano Ltd.

My Adventures in Meccanoland

BY "SPANNER."

(*Continued.*)

The models now begin to get bigger, more complicated and consequently more interesting. On page 13 there are two models that delight the hearts of all young boys—the Joy Wheel (35) and the Roundabout (37). Further on come more roundabouts (120 and 180), and on page 50 there are three fine swings. Why, if you built all the roundabouts, swings, joy-wheels and other machines for amusement that appear in this book, you could hold quite a holiday fair, and the Flying Machine (198), the Big Wheel (279), the big Joy Wheel (286), the Escalator (301), and the Helter Skelter (308) would do a tremendous trade.

During the war I saw the Royal Engineers on several occasions doing wonderful engineering feats, and I have always been interested in bridges and bridge building. The earlier models of Meccano Bridges are comparatively simple, though there is quite a lot of work in the Railway Foot Bridge (121), for instance. This, with the level Crossing Gates (155) helps very considerably in making a fine little railway station. Altogether there are 14 models of Bridges, the finest being the Tower Bridge (314) and the Transporter Bridge (325). The latter, slightly altered and built with the new braced girders (No. 397 in the No. 2 Manual) is my first favourite, for, as you know, it introduced me to the joys of Meccano.

In spite of the happiness which I know Meccano puts into thousands of young hearts, at times I feel inexpressibly sad and regretful. At night, after a full hard evening, building and discussing models with the boys, I go home, and drawing my easy chair up to the fire pull out my pipe and sit down to quiet reflection. There is but a glimmer of light from the gas and I half-sit, half-lie, with my legs stretched out to the fire's warm glow, the smoke rings slowly breaking and lazily curling upwards as I gradually slip into the land of waking dreams. I see myself a famous engineer building a giant railway across a continent, after fighting almost superhuman difficulties—now cutting through forests, now spanning yawning chasms, now traversing trackless wastes of yellow desert. I see my work completed and I return to dear old England to receive the nation's thanks, congratulations, and honours—but no, it is only a dream, and I am back again with reality, a simple worker with no hope of fame and greatness, "all my life might have been." If only I had those wonderful shining strips and nuts and bolts and wheels and cranks and spindles and girders when I was a boy, what a difference it would have made to my life; what hours of fun and enjoyment I would have had; what possibilities would have been opened up for me; what chance of greatness.

Boys! stick to Meccano; it is the finest game in the world. It gives you years of fun and happiness that every boy should have; it teaches you the principles of engineering without fag and drudgery; it opens up wonderful possibilities for your future, for it brings the whole world to your feet, and when you're a man and your little nephews and nieces ask you what was the happiest time of your life, you will say without a moment's hesitation—"Why, Meccano-time, of course."

A New Grand Meccano Prize Competition

£200 in Prizes. 1st prize, £50 in cash

Now that conditions are getting a little nearer normal we are able to resume our big Contests, and we are again offering prizes to the value of £200 for the best Meccano models. The conditions will be the same as usual, and every boy who has a Meccano outfit has an equal chance of carrying away one of the big prizes.

Don't forget that more prizes are awarded to simple models than to complicated ones. Get your entry form without delay from your regular dealer, or from us if you have any trouble.

There are no entrance fees or restrictions of any kind. The entry form tells you just what to do. The competition closes on March 31st, 1920.

The closing date for the Colonies will be extended to May 31st, 1920.

ANY BOY CAN ENTER. MORE THAN 200 PRIZES.

OUR MAIL BAG

The Editor has a little talk in this column with his Meccano boys. Whether he has space to reply to them all here or not, he is always glad to hear from them. He receives hundreds of letters each day and only those which deal with matters which are likely to interest other Meccano boys can be dealt with here.

Correspondents will help the Editor if they will write on one side of the paper only.

Fred Ingham, Bradford.—We hope that by now you are well again, and have had a good holiday. It is quite a good idea to take your outfit on holidays—rainy afternoons have no terrors for Meccano boys. Glad to hear the club is going on well; you should not delay registering with the Guild, for there's bound to be a tremendous rush.

Wm. T. E. Kemm, Wepener, South Africa.—We, too, are sorry that you have been unable to spend any time building models; still, as your younger brother is making such progress you may be obliged to *make* time, or suffer the consequences, for we know what young brothers are. Best of luck in the competition. Yes, we read about the rebels—another case of war nerves, we fear.

A. J. Mare, Golders Green.—"Do you know whether the new parts and the Meccano badges are begun on yet?" Yes, we do. The new parts should be obtainable at your store now, and the Meccano badges—well, the article about the Guild answers a lot of questions, doesn't it? Your suggestion is a very good one, but we are afraid it is not of sufficiently general use to justify its inclusion in Meccano. Try again.

R. Atkinson, Cartgate.—What an enthusiast you are! Anyhow that's the right spirit, and we hope you will find the announcement about the Meccano Guild doing all you wished to do. We don't know of any club secretary close to your address at the moment, but as soon as we do we shall let you know.

George S. McKellar, Kelso.—"I have an idea that if, when Vol. 1 is finished, the complete volume were issued in say cardboard or cloth covers, it would sell well. I'm sure I would like to have the volume bound in the Meccano style." This is not the first time the suggestion has been made. The matter is receiving careful consideration. We are glad you are going to "wake Kelso up"; you will do it most effectively through the club you are going to form, especially if you can get Mr. Stewart to act as club leader.

C. Ransom, King's Lynn.—The rack you mention has already been introduced, and should be obtainable at your dealers now. It will meet a long felt want among Meccano boys.

C. Osmond Kelly, Jamaica.—We don't mind a bit how much you criticise the *M.M.*, for good sound criticisms show us what boys want. You say, "some day I hope to send you some decent poetry to put in your magazine." Thanks, we shall be very pleased to publish it, so hurry up.

W. Jordan, Tooting.—"I thought you would like to inform your other Meccano boys . . . that by using 1in. pulley wheels with set screws and putting white rubber rings (such as umbrella rings) for tyres, the model looks perfect, and it is silent going along." Meccano boys, please note.

Bogie, Railway Mag.—Thanks for your interesting letter; your entries for the competition certainly sound good. Keep your spirits up about the club; you'll soon have more members than you'll know how to manage. Your P.S. "I feel as if you were a father to all us Meccano boys" makes us feel very proud.

Jack Worsley, Wigan, writes: "I beg to tell you that I am deeply interested in these Meccano clubs for Meccano boys . . . if you will be kind enough to write back as soon as possible and acquaint me with all the facts of the Meccano clubs, I will be satisfied." Perhaps after reading the announcement concerning the Meccano Guild, you will understand why we couldn't put it all in a letter—and there's lots more. We hope you'll have a successful club.

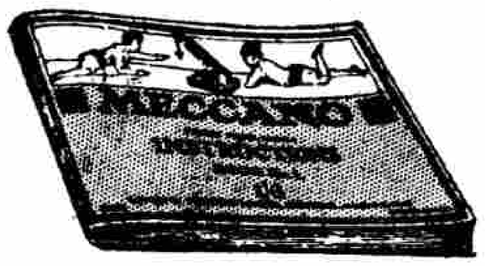
Stuart H. Wilson, Barnsbury.—The "Savings Bank," like every other feature of your club, appears to be a great success. We hope all the members are preparing for the coming season, for they will now have to maintain the honour of the premier club.

A large number of replies have been unavoidably held over until our next issue.

How to get the Meccano Magazine Regularly

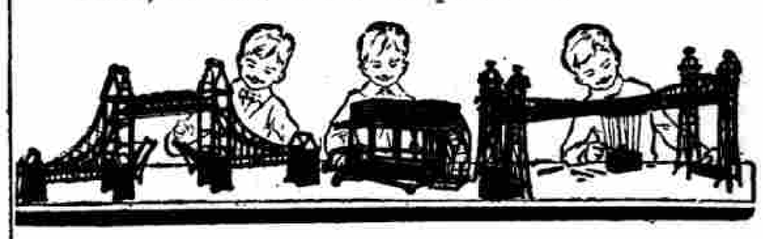
Under the new Government regulations we are unable to send the "Meccano Magazine" to any one except those who directly apply to us for it. If, therefore, you wish to become a reader of the M.M. it will be necessary for you to forward to us a request for it to be sent to you regularly, accompanied by 2d. in stamps for postage on the next four issues. A double subscription of 4d. will, of course, ensure the next eight numbers being sent to you.

Meccano Manuals of Instructions



There are two Meccano Manuals of Instructions, and no Meccano boy is properly equipped unless he has them both. Book No. 1 is the regular manual which goes with the main Meccano outfits. It contains illustrations and full instructions for making 326 fine models; some of the models have been designed by our own staff of experts, and others are prize-winning models contributed by Meccano boys, from every country in the world. Price, 2s. 6d., or 2s. 9d. post free.

Meccano Manual, Book No. 2, has only just been published, and it contains illustrations and instructions for building 100 entirely new models, very many of them prize winners. It contains Tanks, Guns, Submarines, Searchlights, and other warlike models; also a new series of simple and intensely-interesting scientific experiments which any boy can make, and which impart a lot of useful knowledge. Price, 1s. 3d., or 1s. 5d. post free.



Prices of Meccano

No.				
0	Outfit with full instructions for building			6/-
1	do.	do.		10/-
2	do.	do.		20/-
3	do	do.		30/-
4	do	do.		50/-
5	do.	do.	(Carton)	70/-
5	do.	do.	(Wood)	100/-
6	do.	do.		180/-

No. 6 in well-finished cabinet with lock and key.

Accessory Outfits

No. 0a	converting a	No. 0	into a	No. 1	..		5/-
1a	do.	do.	1	do.	2	..	11/-
2a	do.	do.	2	do.	3	..	12/-
3a	do.	do.	3	do.	4	..	22/-
4a	do.	do.	4	do.	5	..	17/6
5a	do.	do.	5	do.	6	(Carton)	65/-
5a	do.	do.	5	do.	6	(Wood)	95/-
Inventor's Outfit			...	...	...	...	10/-
Meccano Clockwork Motor			...	...	...		12/6

Each Meccano outfit is complete with all parts and tools necessary for building models. Full instructions are included and the youngest boy can commence to build at once without study. An accessory outfit may be purchased at any time, enabling bigger and more interesting models to be built. Additional parts may also be purchased separately, at prices given in our published lists.

Remember that though boys play with Meccano for pleasure, and though they get more genuine fun from it than from any other toy, it also gives them a sound knowledge of engineering. Through playing with Meccano, many a bright boy has been started on a prosperous career in one of the most important and profitable professions—engineering and mechanics.

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BINNS ROAD, LIVERPOOL.
Printed by Taylor, Garnett, Evans, & Co., Ltd., Liverpool, Manchester and London.

MECCANO INVENTORS' COMPETITION

1919—20.

ONE of the most excellent features of Meccano is the constant freshness and variety imparted to the hobby by the introduction of new engineering elements, and this is a line of progress which we shall always develop strongly. We have recently added a number of new parts to the system, and each one of them adds to the pleasure and interest of Meccano model building, and to the beauty and efficiency of the models themselves. Every Meccano boy should add them to his outfit because they will give him a lot of help. We are preparing a new Manual of Instructions containing models which will illustrate the usefulness of these new parts, but before this is issued we wish to encourage Meccano boys to think things out for themselves, and we are therefore offering valuable prizes for suggestions for the improvement of the models in the Meccano Manuals of Instructions, by the use of any of the following new parts.

No. 109. Face Plate.	No. 62a. Threaded Crank.	No. 52a. Flat Plates $5\frac{1}{2} \times 3\frac{1}{2}$ in.
,, 110. Rack Strip.	,, 108. Architrave.	,, 53a. ,, ,, $4\frac{1}{2} \times 2\frac{1}{2}$,,
,, 63a. Octagonal Coupling	,, 20a. Pulley Wheel, 2in.	,, 70. ,, ,, $5\frac{1}{2} \times 2\frac{1}{2}$,,
,, 63b. Strip Coupling.	,, 19b. Pulley Wheel, 3in.	,, 72. ,, ,, $2\frac{1}{2} \times 2\frac{1}{2}$,,
,, 64. Threaded Boss.	,, 80 & 81. Screwed Rod.	,, 7. Angle Girders, $24\frac{1}{2}$ in. long
	,, 90. Curved Strip.	,, 7a. ,, ,, $18\frac{1}{2}$ in. ,,

HOW TO COMPETE. Look carefully over the models in the No. 1 and No. 2 Manuals of Instructions, and decide how any of these could be improved by the use of any of the above new parts, then send to us a sketch or photograph of the alterations which you suggest, together with a short description.

First Prize—a	**No. 6**	**Meccano**	**Outfit**	....	**value**	**£9**	**0**	**0**
Second ,,	,, **5**	,,	,,	....	,,	**£5**	**0**	**0**
Third ,,	,, **5**	,,	,,	**(carton)**	,,	**£3**	**10**	**0**

Additional Prizes will be awarded to competitors whose entries shew special merit.

All entries for this competition should be addressed—

INVENTORS' COMPETITION,
MECCANO LIMITED,
BINNS ROAD,
LIVERPOOL.

Closing date, March 1st, 1920.

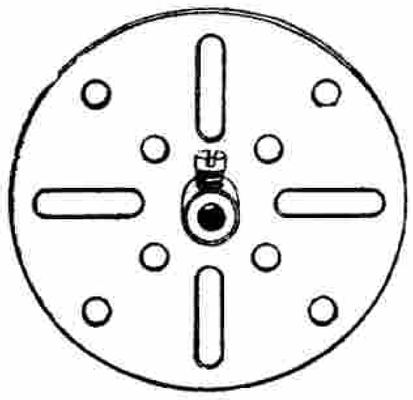
The judges will be Meccano Ltd., and the sole copyright of the photos, sketches or models which win prizes will be vested in the Company. Photographs or sketches will not be returned.

No special Form of Entry is required in this competition.

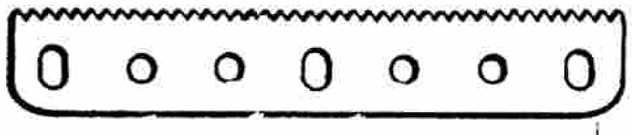
MECCANO LIMITED. **LIVERPOOL.**

919/35

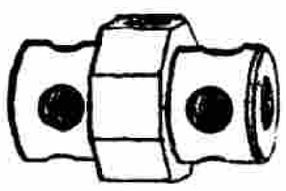
NEW MECCANO ACCESSORY PARTS



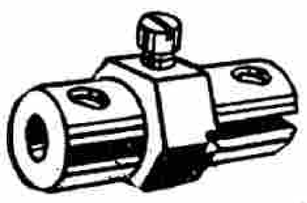
109. Face Plate, 2½in. diameter, used as a chuck for a lathe, centre boss for big wheel, etc. ... ... 6d. each.



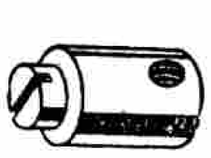
110. Rack Strip, 3½in. Cut to the pitch of Meccano gear wheels. Can be built up to any length ... 3d each



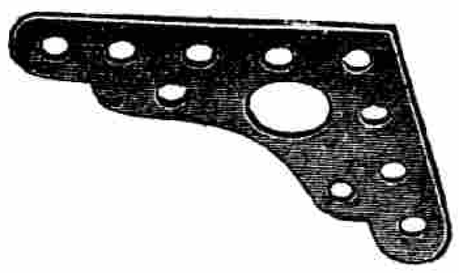
63a. Octagonal Coupling. Drilled and tapped in the same way as the regular Meccano coupling, with an extra tapped hole. Can be attached to Meccano strips on its flat faces, or may be used as the hub of a wheel. 9d. each.



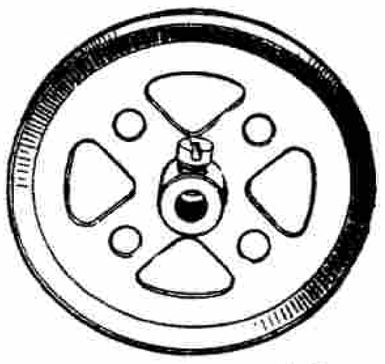
63b. Strip Coupling. Drilled, tapped and slotted. Forms a suitable connection between strips and rods. 9d. each.



64. Threaded Boss. To be used as a fixed nut for attaching to any Meccano part which requires to be engaged by a screwed rod ... 3d. each.



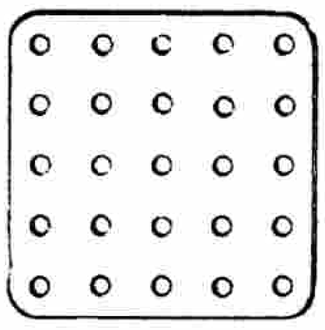
108. Architrave. May be used as a bracket for strengthening many of the models, also as a decorative piece for finishing off columns, towers, &c. ... 3d. each.



20a. Pulley Wheels, 2″ diameter, with centre boss and set screw ... ... 9d. each.
19b. Do. 3″ diam., 1/- each.

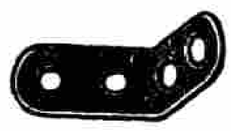
111. Bolt, ⅜″ ... 1d. each.

80. Screwed Rods, 5″ 6d. each.
81. Do. 2″ 3d. ,,

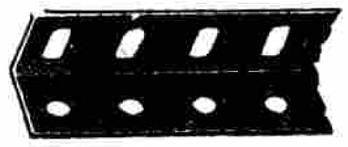


52a. Flat Plates, 5½″ × 3½″ 5d. each.
72. Do. 2½″ × 2½″ 3d. each.
70. Do. 5½″ × 2½″ 5d. each.
53a. Do. 4½″ × 2½″ 4d. each.

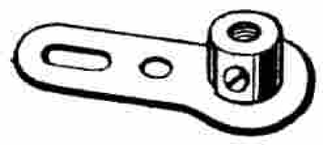
90. Curved Strips, 2½″ 1d. each.



12a. Angle Brackets, 1″ 2d. each.

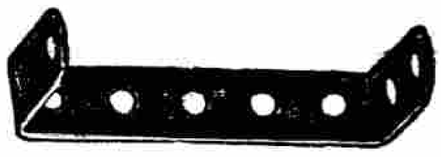


7. Angle Girders, 24½″ long 9d. each.
7a. Do. 18½″ long 7d. each.

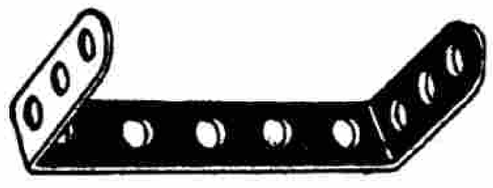


62a. Threaded Crank. Similar to the ordinary crank with the exception that the centre of the boss is threaded and there is also a threaded hole at right angles 6d. each.

60a. Double Angle Strip, 1½″ × ½″ 1d. each.
60. Do. 2½″ × ½″ 1½d. each.
60b. Do. 3½″ × ½″ 2d. each.
60c. Do. 5½″ × ½″ 3d. each.



46. Double Angle Strip, 2½″ × 1″ 3d. each.



112. DoubleAngleStrip, 2½″ × 1½″ 3d. each.

919/35

THE BLOCK ACCUMULATOR.

4 volts ... 6 ampere hours.

This is a new and excellent type of accumulator. We have subjected it to most severe tests, and we believe it to be most suitable for use with any type of toy electric motor. It is non-spillable, cannot be spoiled through not circuiting, and it will retain its charge for many months. Sulphating to any serious extent cannot occur, and if neglected or left in inexperienced hands, no serious harm can be done. Has remarkable recuperative powers, and will keep on working when nominally exhausted. A boon to any Meccano user who possesses a Meccano Electric Motor. Full instructions.

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